

Product datasheet for **SC319423**

Actin Regulatory Protein CAPG (CAPG) (NM_001747) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Actin Regulatory Protein CAPG (CAPG) (NM_001747) Human Untagged Clone
Tag:	Tag Free
Symbol:	Actin Regulatory Protein CAPG
Synonyms:	AFCP; HEL-S-66; MCP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001747.2
GCAGGCTGGAAGGAAGACGAACCTACGAAGCAGAGATCTGAAGACAGCATGTACACAGCC
ATCCCCAGAGTGGCTCTCCATTCCCAGGCTCAGTGCAGGATCCAGGCCATGTCATGTGTGG
CGGGTGGAGAAGCTGAAGCCGGTGCCTGTGGCGCAAGAGAACCAGGGCGTCTTCTCTCG
GGGACTCCTACCTAGTCTGCACAATGGCCAGAAAGAGTTTCCCATCTGCACCTGTGG
ATAGGCCAGCAGTCATCCCGGATGAGCAGGGGCTGTGCCGTGCTGGCTGTGCACCTC
AACACGCTGTGGGAGAGCGGCTGTGCAGCACCGCGAGGTGCAGGGCAATGAGTCTGAC
CTCTTCATGAGCTACTTCCCACGGGGCTCAAGTACCAGGAAGGTGGTGTGGAGTCAGCA
TTTCAAGACCTCCACAGGAGCCCCAGCTGCCATCAAGAACTCTACCAGGTGAAGGGG
AAGAAGAACATCCGTGCCACCGAGCGGGCACTGAACTGGGACAGCTTCAACTGGGGAC
TGCTTCATCCTGGACCTGGGCCAGAACATCTTCGCCTGGTGTGGTGGAAAGTCCAACATC
CTGGAACGCAACAAGGCGAGGGACCTGGCCCTGGCCATCCGGGACAGTGAGCGACAGGGC
AAGGCCAGGTGGAGATTGTCACTGATGGGGAGGAGCCTGCTGAGATGATCCAGGTCCTG
GGCCCCAAGCCTGCTCTGAAGGAGGGCAACCCTGAGGAAGACCTCACAGCTGACAAGGCA
AATGCCAGGCGCAGCTCTGTATAAGGTCTCTGATGCCACTGGACAGATGAACCTGACC
AAGGTGGCTGACTCCAGCCCCTTGGCCCTTGAAGTGTGATATCTGATGACTGCTTTGTG
CTGGACAACGGGCTCTGTGGCAAGATCTATATCTGGAAGGGGCGAAAAGCGAATGAGAAG
GAGCGGCAGGCAGCCCTGCAGGTGGCCGAGGGCTTCATCTCGCGCATGCAGTACGCCCCG
AACACTCAGGTGGAGATTCTGCCTCAGGGCCGTGAGAGTCCCATCTTCAAGCAATTTTTC
AAGGACTGAAAATGAGGGTGGGCGTCTTCTGCCCCATGCTCCCCCTGCCCCACCACCT
GCCTGCTTCTCTGGCTGCCTGGTCAAGTGCAGAGGTGCCCCCTGCAGATGTTCAATA
AAGGAGACAAGTCTTTAAAAAAAAAAAAAAAAAAAA

Restriction Sites:	Please inquire
ACCN:	NM_001747



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM_001747.2</u> , <u>NP_001738.2</u>
RefSeq Size:	1460 bp
RefSeq ORF:	1047 bp
Locus ID:	822
UniProt ID:	<u>P40121</u>
Cytogenetics:	2p11.2
Domains:	GEL, Gelsolin
Gene Summary:	<p>This gene encodes a member of the gelsolin/villin family of actin-regulatory proteins. The encoded protein reversibly blocks the barbed ends of F-actin filaments in a Ca²⁺ and phosphoinositide-regulated manner, but does not sever preformed actin filaments. By capping the barbed ends of actin filaments, the encoded protein contributes to the control of actin-based motility in non-muscle cells. Alternatively spliced transcript variants have been observed for this gene. [provided by RefSeq, Jan 2012]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Variants 1, 2, 4, and 5 all encode the same isoform (1).</p>